48/50PG03-16
Single-Package Rooftop Units
Roof Curb Adapter Accessory

Installation Instructions

Part Numbers: CRADCURB001A00, CRADCURB002A00, CRADCURB003A00

PACKAGE USAGE

EXISTING ROOFTOP UNIT	EXISTING ROOF CURB	ADAPTER CURB USAGE	RETROFIT UNIT
48/50DJ,HJ,TF,TFF,TJ,TM004-007 50HJQ,TFQ004-007	CRRFCURB001A00, or CRRFCURB002A00, or CRRFCURB022A00*	CRADCURB001A00	48/50PG03-07
48/50DJ,HJ,TF,TFF,TJ,TM008-014 50HJQ,TFQ008-012	CRRBCURB003A00, or CRRFCURB004A00, or CRRFCURB023A00*	CRADCURB002A00	48/50PG08-14
48/50HJ015-017 48/50TJ,TM016-028 50HJQ014,016	CRRFCURB010A00 or CRRFCURB011A00	CRADCURB003A00	48/50PG16

*Roof curbs CRRFCURB022A00 and CRRFCURB023A00 are COBRA™ full perimeter roof curbs. The accessory roof curb adapters will work with these curbs.

SAFETY CONSIDERATIONS

Installation and servicing of air-conditioning equipment can be hazardous due to system pressure and electrical components. Only trained and qualified service personnel should install, repair, or service air-conditioning equipment.

Untrained personnel can perform the basic maintenance functions of replacing filters. All other operations should be performed by trained service personnel. When working on air-conditioning equipment, observe precautions in the literature, tags and labels attached to the unit, and other safety precautions that may apply.

GENERAL

The accessory roof curb adapter is used when retrofitting a 48/50PG unit onto an existing Carrier roof curb. The roof curb adapter mounts on existing DJ, HJ, TF, TJ, TM roof curbs to allow the installation of a 48/50PG unit onto the existing curb.

INSTALLATION

⚠ WARNING

To prevent injuries and rain damage, do not leave roof opening uncovered. If unit installation is not completed immediately after adapter curb is installed, provide an adequate temporary cover for the roof opening.

Follow all local, state, and other applicable codes when installing the accessory roof curb adapters.

NOTE: All accessory roof curb adapters increase the external static pressure. The added static pressure must be included when calculating system requirements. See Table 1.

1. The accessory roof curb adapters have been designed to fit existing Carrier roof curbs. Before installing, check to ensure that the dimensions on the existing curb match the dimensions shown in Fig. 1.
2. Make sure the existing curb and roof structure are capable of supporting the accessory roof curb adapter and unit. The adapter curb and unit together will weigh more than the existing unit.
3. Turn off all gas to the existing unit (if applicable). Shut off electric power and install lockout tag.
4. Remove existing electrical connections from existing unit.
5. If existing unit is a gas heat unit, remove gas connection from existing unit.
6. Some installations may have the existing ductwork attached to the unit instead of the roof curb. If this is the case, unattach the ductwork from the unit and attach ductwork to roof curb.
7. Remove the existing HVAC unit from the roof.
8. Reinforce the existing roof curb and roof structure as required.
9. Install sealing gasket on the top of the curb and duct openings. When installed, the weight of the accessory roof curb adapter will compress the gasket to seal the joint between the accessory and the existing curb. Gasket strips must fit tightly together to leave no gaps for leakage.

IMPORTANT: Gasketing is critical for water integrity. Improperly installed gasketing can result in air leaks and poor unit performance.

Table 1 — Accessory Adapter Curb Pressure Drop (in. wg)

ACCESSORY	UNIT	PRESSURE DROP (at 400 cfm/ton)
CRADCURB001A00	48/50PG03	0.12
	48/50PG04	0.16
	48/50PG05	0.21
	48/50PG06	0.27
	48/50PG07	0.32
CRADCURB002A00	48/50PG08	0.18
	48/50PG09	0.22
	48/50PG12	0.28
	48/50PG14	0.36
CRADCURB003A00	48/50PG16	0.21

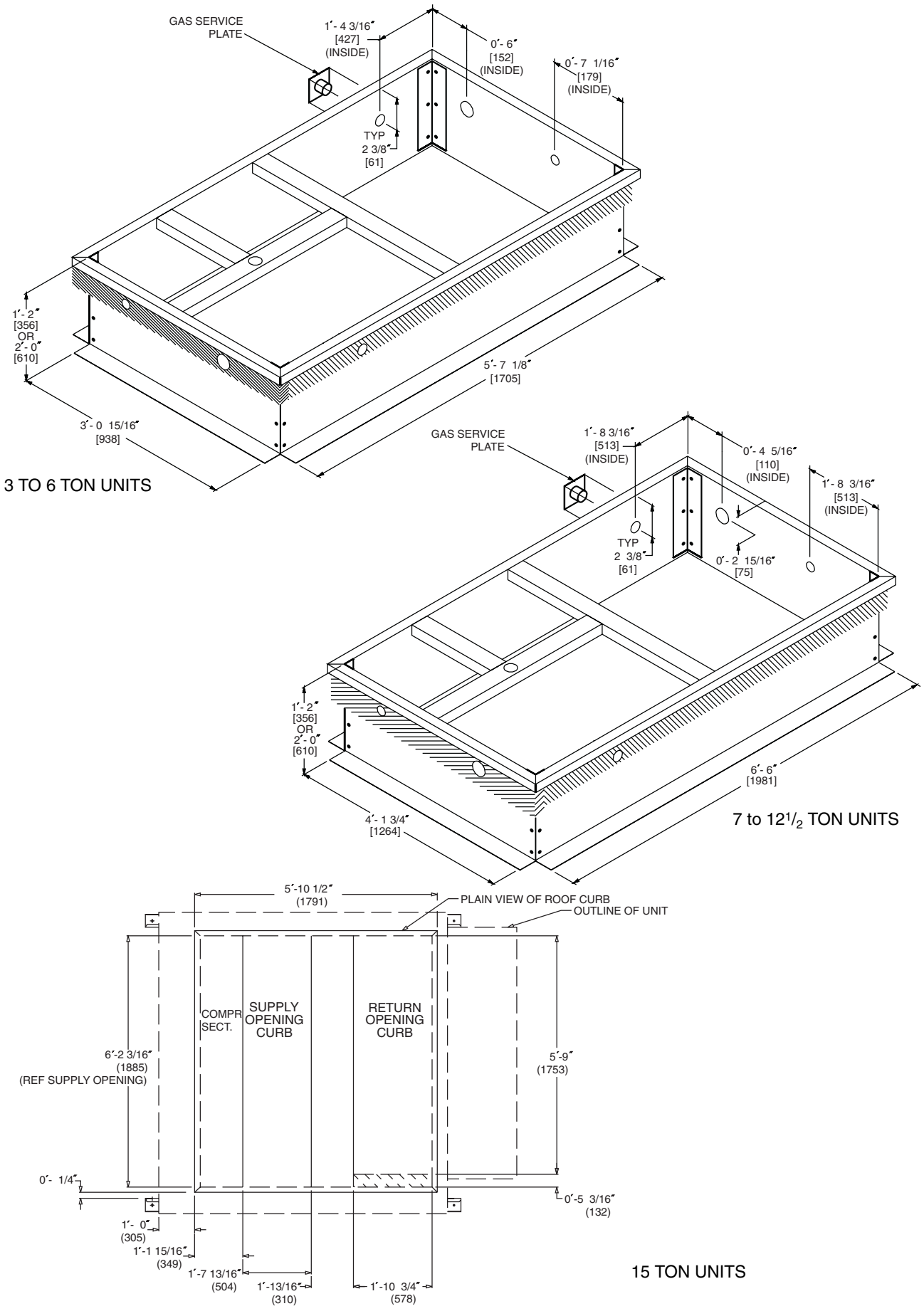
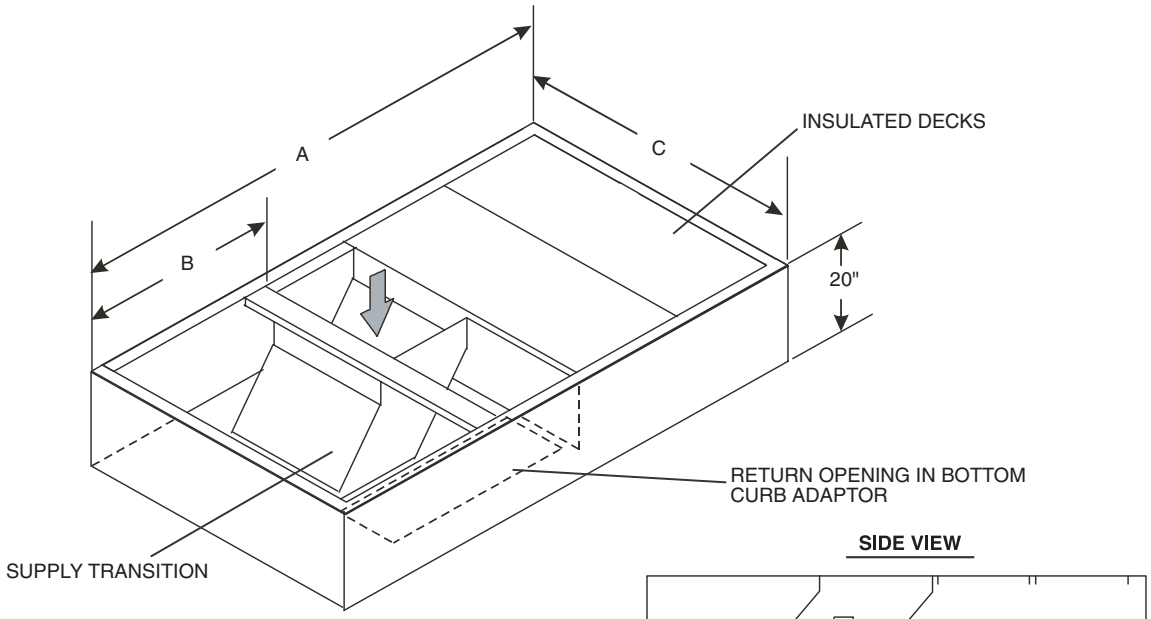


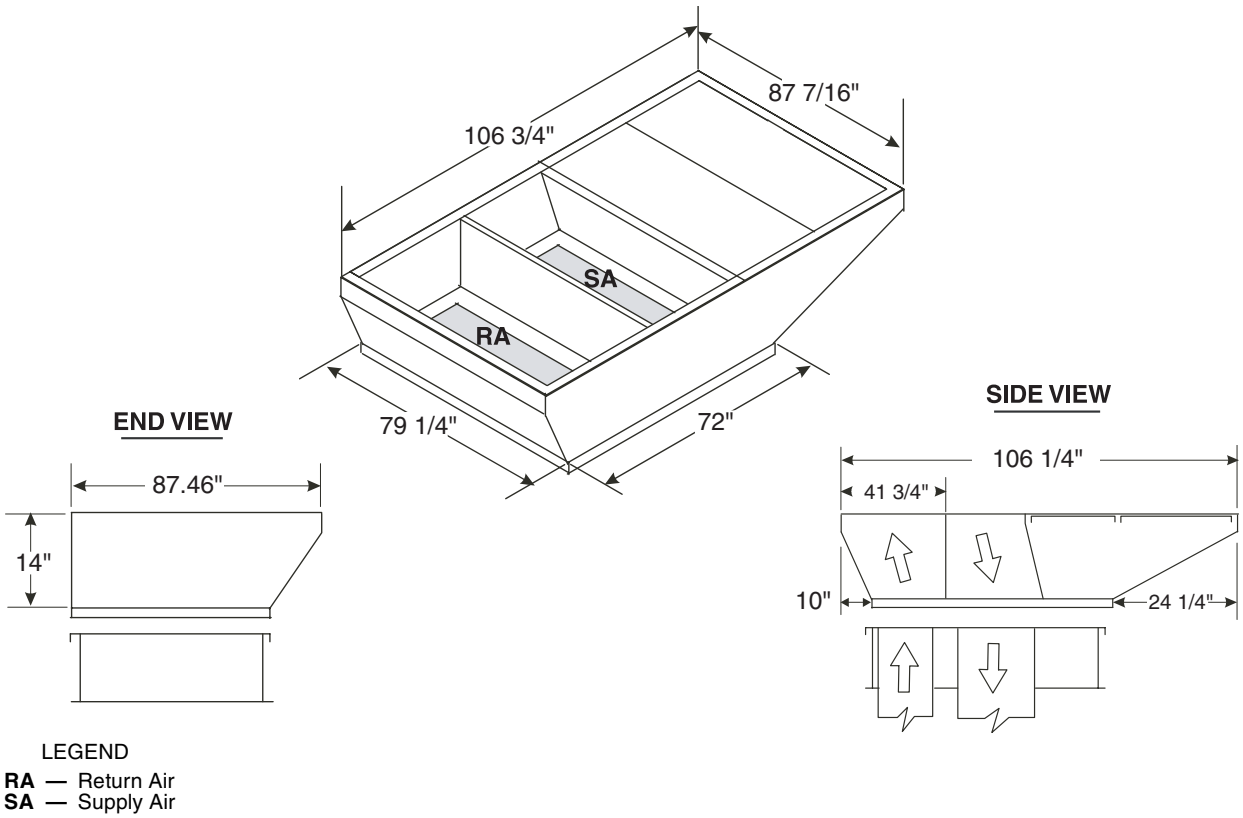
Fig. 1 — Existing DJ, HJ, TF, TJ, TM Roof Curb Dimensions

10. Set the accessory curb adapter on top of the existing curb. Make sure openings in accessory adapter curb line up with the openings in existing roof curb and there is a tight seal. See Fig. 2 and 3.
11. Secure the accessory adapter to the existing roof curb using field-supplied fasteners.
12. Install sealing gasket on the top of the accessory adapter curb and duct openings. When installed, the weight of the unit will compress the gasket to seal the joint between the accessory and the unit. Gasket strips must fit tightly together to leave no gaps for leakage.
13. Make all necessary gas and electrical connections.
14. Set 48/50PG unit on top of accessory adapter curb. Refer to 48/50PG installation instructions for information on mounting the unit.



CRADCURB	DIMENSIONS (in.)		
	A	B	C
001A00	$83\frac{3}{4}$	$34\frac{5}{8}$	$48\frac{3}{16}$
002A00	$96\frac{1}{4}$	$45\frac{1}{2}$	$57\frac{3}{16}$

Fig. 2 — Curb Adapter — CRADCURB001A00 and 002A00



LEGEND
RA — Return Air
SA — Supply Air

Fig. 3 — Curb Adapter — CRADCURB003A00

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